



MONTANA NATURAL HERITAGE PROGRAM

1515 East Sixth Avenue
Helena, Montana 59620
(406) 444-3009

ANIMAL SPECIES OF SPECIAL CONCERN

FEBRUARY, 1990

The Montana Natural Heritage Program (MTNHP) is conducting an inventory of the elements of biological diversity in Montana. The inventory includes plant species, animal species, and plant communities that are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of animal species of special concern in Montana is used to direct data acquisition by the MTNHP. It has been developed largely from information supplied by the Vertebrate Species of Special Interest or Concern (Flath 1984), Montana Bird Distribution (Skaar, et al. 1985), Fishes of Montana (Brown 1971), and from the scientific literature, personal contacts, museum specimens, and field research. This list is dynamic and is periodically revised as new data become available to the MTNHP.

Written comments and suggestions are continually needed on this list, particularly regarding recommended additions or deletions. New locational information for any of these taxa is also being solicited. The MTNHP can supply current locational information and status data for most of these taxa.

Animal taxa are ranked on the basis of their global (range-wide) rarity, and their rarity within Montana. These ranks are assigned according to a standardized procedure used by Natural Heritage Programs, and are defined as follows:

GLOBAL

RANK

Definition

G1

Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction.

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GLOBAL

<u>RANK</u>	<u>Definition</u>
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- | | |
|----|--|
| G1 | Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. |
|----|--|

- G2 Imperiled globally because of rarity (6 to 20 occurrences) or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered throughout range).
- G3 Either very rare and local throughout its range or found locally (even abundant at some of its locations) in a restricted range, or because of other factors making it vulnerable to extinction throughout its range; in the range of 21 to 100 occurrences. (Threatened throughout range).
- G4 Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- G5 Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- GU Possibly in peril range-wide, but status uncertain; more information needed.
- GH Historically known; may be rediscovered.
- GX Believed to be extinct throughout range; historical records only, continue search.

STATE
RANK

Definition

- S1 Critically imperiled in Montana because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state. (Critically endangered in state).
- S2 Imperiled in Montana because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state. (Endangered in state).
- S3 Rare in Montana (on the order of 20+ occurrences). (Threatened in state).
- S4 Apparently secure in Montana.
- S5 Demonstrably secure in Montana.
- SU Possibly in peril in Montana, but status uncertain; more information needed.
- SH Historically known in Montana; may be rediscovered.
- SX Apparently extirpated from Montana.

Other codes:

- Q Taxonomic questions or problems involved; more information needed.
- T Rank for a subspecific taxon (subspecies or variety); appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are constantly being revised or completed; these updated rankings will appear on revised lists as they become available.

USF&WS STATUS: The symbols in this column denote the categories defined in the U.S. Fish and Wildlife Service Notice of Review (Federal Register, 1985).

- LE Listed Endangered
- LT Listed Threatened
- P Proposed E or T
- C1 Notice of Review, Category 1 (substantial biological information on file to support the appropriateness of proposing to list as endangered or threatened).
- C2 Notice of Review, Category 2 (current information indicates that proposing to list as endangered or threatened is possibly appropriate, but substantial biological information is not on file to support an immediate ruling).
- C2* Category 2, and the taxon is possibly extinct.
- 3A Taxa for which the USFWS has persuasive evidence of extinction.
- 3B Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species".
- 3C Taxa that have proven to be more abundant or widespread than was previously believed, and/or those that are not subject to any identifiable threat.

USFS STATUS: The symbols in this column denote the categories defined by the U.S. Forest Service manual (2670.22). S = Sensitive species; W = Watch status. These species are listed as such by the Regional Forester for Montana National Forests. Not all USFS Sensitive and Watch status species are considered here.

STATE STATUS: These symbols give the state legal status of vertebrates as listed in the 1987 Statutes of Montana for the Department of Fish, Wildlife, and Parks.

- GA = Game Animal
- GF = Game Fish
- FB = Fur Bearing Animal
- MB = Migratory Bird
- UB = Upland Game Bird
- E = Endangered
- NG = Nongame Wildlife
- P = Protected Species
- U = Unprotected Species

Management Status:

- CS = Closed Season
- RH = Restricted Harvest

Selected references:

- Brown, C.J.D. 1971. Fishes of Montana. Montana State Univ., Bozeman. 207 pp.
- Federal Register, 1985. Endangered and threatened wildlife and plants: Review of Vertebrate Wildlife; Notice of review. 50 (181): 37958-37967. 18 September 1985.
- Flath, D.L. 1984. Vertebrate Species of Special Interest or Concern. MT Dept. Fish, Wildlife and Parks. Helena. 76 pp.
- Statutes, State of Montana. 1987. A compilation of statutes relating to fish, wildlife, parks, outdoor recreation, and certain other natural resources of the state of Montana. Dept. Fish, Wildlife and Parks. Helena. 325 pp.
- Skaar, P.D. 1985. Montana Bird Distribution. 3rd. ed. as revised by D. Skaar, D. Flath, and L.S. Thompson. Monograph No. 3, Montana Academy of Sciences. Suppl. to Proc. Vol. 44: 1-70.
- Thompson, L.S. 1982. Distribution of Montana amphibians, reptiles, and mammals. MT Audobon Council, Helena. 24 pp.

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Animal Species of Special Concern

Name Common Name	State Rank	Global Rank	State Status	USF&WS Status	USFS Status
<u>FISH</u>					
ACIPENSER TRANSMONTANUS WHITE STURGEON	SH	G4	GFRH		SENSITIVE LIST
SCAPHIRHYNCHUS ALBUS PALLID STURGEON	S1	G1	GFRH	LT	NONE
POLYODON SPATHULA PADDLEFISH	S3	G4	GFRH	3C	NONE
LEPISOSTEUS PLATOSTOMUS SHORTNOSE GAR	S1	G5	NG		NONE
ONCORHYNCHUS CLARKI BOUVIERI YELLOWSTONE CUTTHROAT TROUT	S2	G5T3	GF		SENSITIVE LIST
ONCORHYNCHUS CLARKI LEWISI WESTSLOPE CUTTHROAT TROUT	S3	G5T3	GF		SENSITIVE LIST
ONCORHYNCHUS MYKISS GIBBSII INTERIOR REDBAND TROUT	S1	G5	GF		SENSITIVE LIST
SALVELINUS CONFLUENTUS BULL TROUT	S3	G4	GFRH	C2	SENSITIVE LIST
THYMALLUS ARCTICUS MONTANUS MONTANA ARCTIC GRAYLING	S1	G5T2	GFRH	C2	SENSITIVE LIST
HYBOPSIS GELIDA STURGEON CHUB	S3	G3	NG	C2	NONE
HYBOPSIS MEEKI SICKLEFIN CHUB	S1	G2	NG	C2	NONE
PHOXINUS EOS X PHOXINUS NEOGAEUS NORTHERN REDBELLY X FINESCALE DACE	S3	G4	NG		NONE
SEMOTILUS MARGARITA PEARL DACE	S2	G5	NG		NONE
CYCLEPTUS ELONGATUS BLUE SUCKER	S2	G4	NG	C2	NONE
PERCOPSIS OMISCOMAYCUS TROUT-PERCH	S1	G5	NG		NONE
COTTUS CONFUSUS SHORTHEAD SCULPIN	S3	G5	NG		SENSITIVE LIST
COTTUS RHOZEUS TORRENT SCULPIN	S2	G5	NG		SENSITIVE LIST
COTTUS RICEI SPOONHEAD SCULPIN	S1	G5?	NG		NONE

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<u>AMPHIBIANS</u>					
PLETHODON IDAHOENSIS COEUR D'ALENE SALAMANDER	S2	G2Q	NG	3C	SENSITIVE LIST
DICAMPTODON ENSATUS PACIFIC GIANT SALAMANDER	S1	G5	NG		NONE
ASCAPHUS TRUEI TAILED FROG	S3	G5	NG		WATCH LIST
BUFO HEMIOPHRYX CANADIAN TOAD	S1	G5	NG		NONE
RANA SYLVATICA WOOD FROG	SU	G5	NG		NONE
<u>REPTILES</u>					
CHELYDRA SERPENTINA SNAPPING TURTLE	S3	G5	NG		NONE
APALONE SPINIFERA SPINY SOFTSHELL	S3	G5	NG		NONE
ELGARIA COERULEA NORTHERN ALLIGATOR LIZARD	S3	G5	NG		NONE
HETERODON NASICUS WESTERN HOGNOSE SNAKE	S3?	G5	NG		NONE
OPHEODRYS VERNALIS SMOOTH GREEN SNAKE	S3	G5	NG		NONE
<u>BIRDS</u>					
GAVIA IMMER COMMON LOON	S3	G5	P		SENSITIVE LIST
PELECANUS ERYTHORHYNCHOS AMERICAN WHITE PELICAN	S2	G3	P		NONE
PLEGADIS CHIHI WHITE-FACED IBIS	S1	G5	P	C2	NONE
CYGNUS BUCCINATOR TRUMPETER SWAN	S2	G4	MB		SENSITIVE LIST
HISTRIONICUS HISTRIONICUS HARLEQUIN DUCK	S2	G5	MB		SENSITIVE LIST
HALIAEETUS LEUCOCEPHALUS BALD EAGLE	S3	G3	P	LELT	NONE
BUTEO SWAINSONI SWAINSON'S HAWK	S4	G4	P	C2	NONE
BUTEO REGALIS FERRUGINOUS HAWK	S3	G4	P	C2	SENSITIVE LIST
FALCO PEREGRINUS PEREGRINE FALCON	S1	G3	E	LE	NONE

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TYMPANUCHUS PHASIANELLUS COLUMBIANUS COLUMBIAN SHARP-TAILED GROUSE	S1	G4TU	UB		NONE
GRUS AMERICANA WHOOING CRANE	SH	G1	E	LE	NONE
CHARADRIUS MELODUS PIPING PLOVER	S1	G2	P	LT	NONE
CHARADRIUS MONTANUS MOUNTAIN PLOVER	S2	G3	P	C2	NONE
NUMENIUS AMERICANUS LONG-BILLED CURLEW	S4	G5	P	C2	WATCH LIST
STERNA ANTILLARUM LEAST TERN	S1	G4	P	LE	NONE
OTUS FLAMMEOLUS FLAMMULATED OWL	SU	G4	P		NONE
ATHENE CUNICULARIA BURROWING OWL	S3	G5	P		WATCH LIST
STRIX NEBULOSA GREAT GRAY OWL	S3	G5	P		WATCH LIST
AEGOLIUS FUNEREUS BOREAL OWL	S3	G5	P		SENSITIVE LIST
SIALIA SIALIS EASTERN BLUEBIRD	S3	G5	P		NONE
SPIZA AMERICANA DICKCISSEL	S1	G4	P		NONE
AMPHISPIZA BELLI SAGE SPARROW	S2	G5	P		NONE
AMMODRAMUS LECONTEI LECONTE'S SPARROW	S1	G4?	P		NONE
<u>MAMMALS</u>					
SOREX PREBLEI PREBLE'S SHREW	S3	G4	NG	C2	NONE
SOREX NANUS DWARF SHREW	S3	G5	NG		NONE
MYOTIS THYSANODES FRINGED MYOTIS	S2	G5	NG		WATCH LIST
MYOTIS CALIFORNICUS CALIFORNIA MYOTIS	S2	G5	NG		NONE
MYOTIS SEPTENTRIONALIS NORTHERN MYOTIS	S2	G4	NG		NONE
EUDERMA MACULATUM SPOTTED BAT	S1	G4	NG	C2	SENSITIVE LIST

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PLECOTUS TOWNSENDII TOWNSEND'S BIG-EARED BAT	S2	G4	NG		SENSITIVE LIST
ANTROZOUS PALLIDUS PALLID BAT	S1	G5	NG		NONE
TAMIAS UMBRINUS UINTA CHIPMUNK	S3?	G5	NG		NONE
CYNOMYS LEUCURUS WHITE-TAILED PRAIRIE DOG	S2	G4	NG		NONE
PEROGNATHUS PARVUS GREAT BASIN POCKET MOUSE	SU	G5	NG		NONE
PEROGNATHUS HISPIDUS HISPID POCKET MOUSE	S1	G5	NG		NONE
SYNAPTOMYS BOREALIS NORTHERN BOG LEMMING	S1	G5	NG		NONE
ZAPUS HUDSONIUS MEADOW JUMPING MOUSE	S3?	G5	NG		NONE
CANIS LUPUS GRAY WOLF	S1	G4	E	LELT	NONE
VULPES VELOX SWIFT FOX	SH	G4	FBCS	C2	NONE
URSUS ARCTOS HORRIBILIS GRIZZLY BEAR	S3	G4T3	GARH	LT	NONE
MARTES PENNANTI FISHER	S2	G5	FBRH		WATCH LIST
MUSTELA NIGRIPES BLACK-FOOTED FERRET	SH	G1	E	LE	NONE
GULO GULO WOLVERINE	S4?	G4	FBRH	C2	NONE
FELIS LYNX LYNX	S3	G5	FBRH	C2	NONE
RANGIFER TARANDUS CARIBOU WOODLAND CARIBOU	SH	G5TU	GACS	LT	NONE IN MT
<u>INVERTEBRATES</u>					
ZAITZEVA THERMAE WARM SPRING ZAITZEVAN RIFFLE BEETLE	S1	G1	NONE	C2	NONE
MICROCYLLOEPUS BROWNI BROWN'S MICROCYLLOEPUS RIFFLE BEETLE	S1	G1	NONE	C2	NONE
CAENIS YOUNGI ??	S2	G3	NONE		NONE
SPEYERIA IDALIA REGAL FRITILLARY BUTTERFLY	SH	G3	NONE	C2	NONE
ISOCAPNIA CRINITA ??	S2	GU	NONE		NONE

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ISOCAPNIA INTEGRATA ??	S2	G2	NONE		NONE
UTACAPNIA COLUMBIANA ??	S2	GU	NONE		NONE
LEDNIA TUMANA MELT-WATER LEDNIA STONEFLY	S1	G1	NONE	C2	NONE
ZAPADA CORDILLERA ?	S2	GU	NONE		NONE
ZAPADA GLACIER WESTERN GLACIER STONEFLY	S1	G1	NONE		NONE
ISOPERLA PETERSONI ??	S2?	GU	NONE		NONE
RHYACOPHILA ALEXANDERI ALEXANDER'S RHYACOPHILAN CADDISFLY	S2	G2	NONE	C2	NONE
RHYACOPHILA EBRIA ??	S1?	G1?	NONE		NONE
RHYACOPHILA NEWELLI ??	S2?	G2?	NONE		NONE
RHYACOPHILA GLACIERI ??	S1	G1	NONE		NONE
AGAPETUS MONTANUS ??	S2?	G2?	NONE		NONE
OREOHELIX CARINIFERA CARINATE LAND SNAIL	S1	G1	NONE		NONE
OREOHELIX ELRODI ELROD'S SNAIL	S1	G1	NONE		NONE